

Update on Comprehensive Response to Climate Change

Office of Research, Planning, and Performance

April 3, 2017 – Item 6



Outline



Mitigation

Reducing
emissions



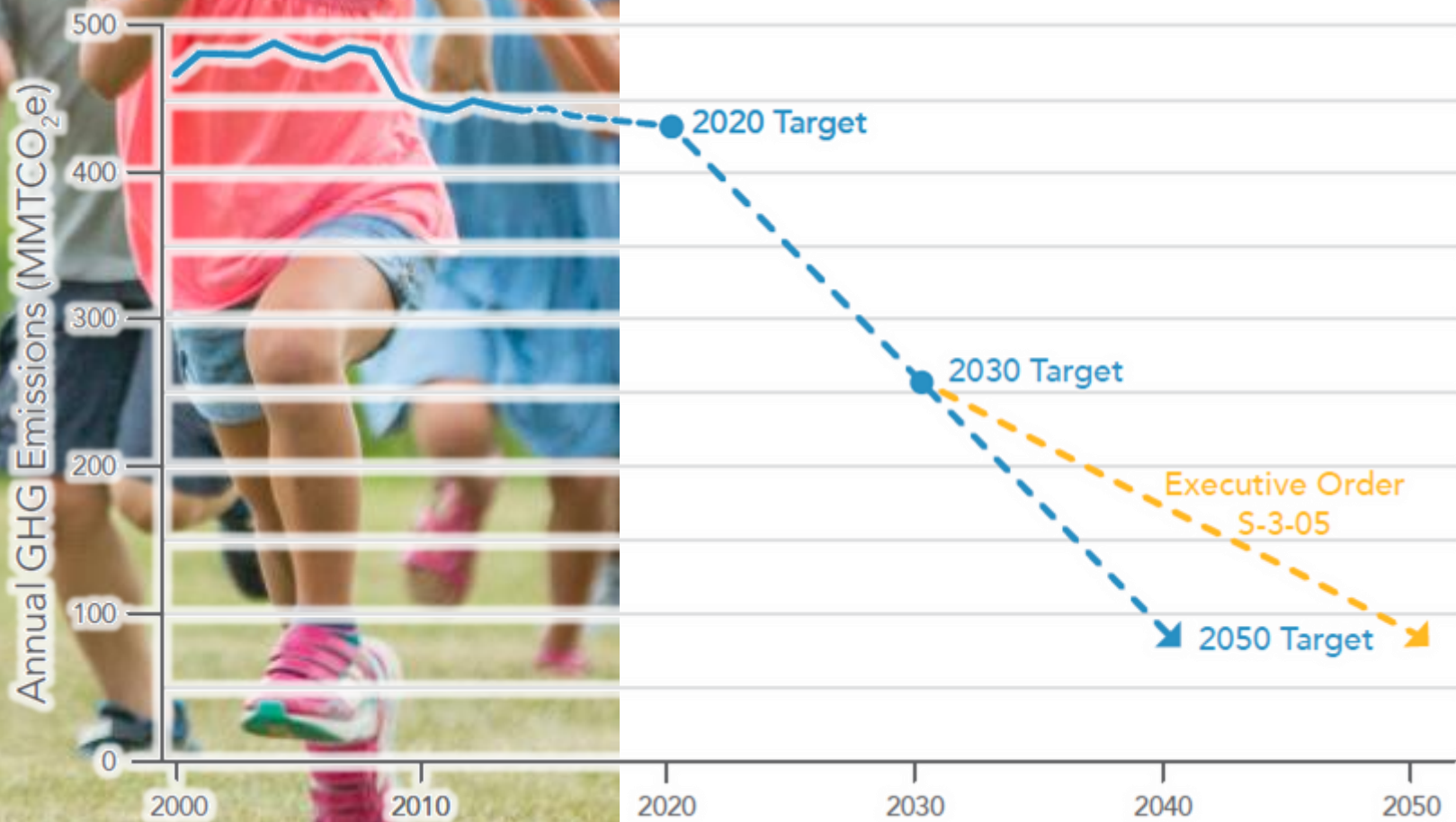
Adaptation

Responding to
impacts



Support

Funding, outreach,
access to data



Mitigation: Methane Capture



PHOTO: CalRecycle

- Composting General Order supports diversion of green material from landfills to composting
- USEPA grant to research co-digestion potential at wastewater treatment plants

Mitigation: Water Conservation



- Water saved under the emergency regulation had substantial indirect greenhouse gas emission reduction benefits
- Engage with stakeholders to inform water loss regulation

Mitigation: Recycled Water



- Proposed amendment to the Recycled Water Policy would require reporting of recycled water by recycled water producers
- Develop online data entry system to track recycled water use
- Surface Water Augmentation adopted in March 2018

Mitigation: Storm Water



- Provide recommendations for storm water capture and use calculation methodologies
- Develop a watershed level pilot project to identify data sources and to test methodologies for estimating storm water capture

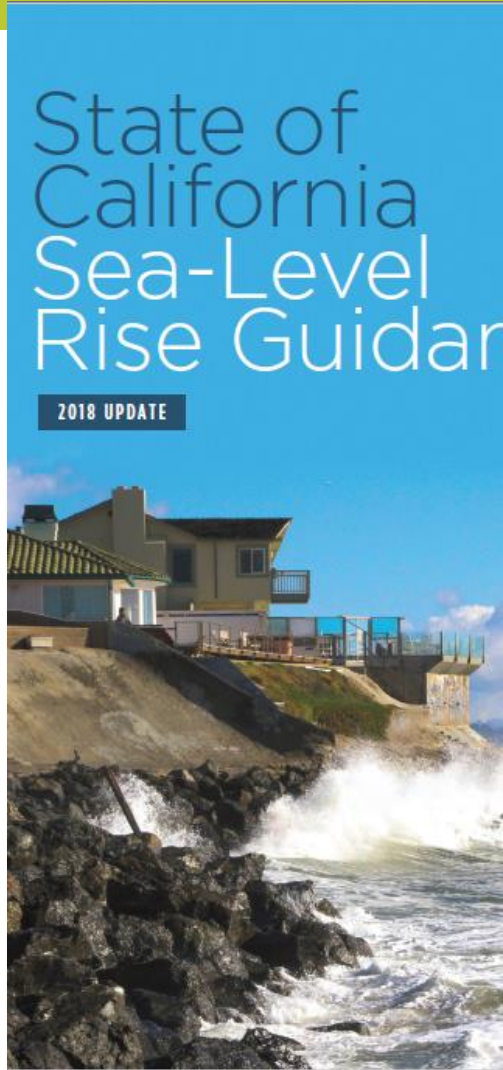
One of the biggest uncertainties in estimating future conditions is human behavior

Adaptation: Drinking Water Systems



- Enhance climate change readiness (eAR, sanitary surveys, siting standards)
- Make information available on a public portal
- Work with technical assistance providers to include climate change workshops

Adaptation: Infrastructure Vulnerability



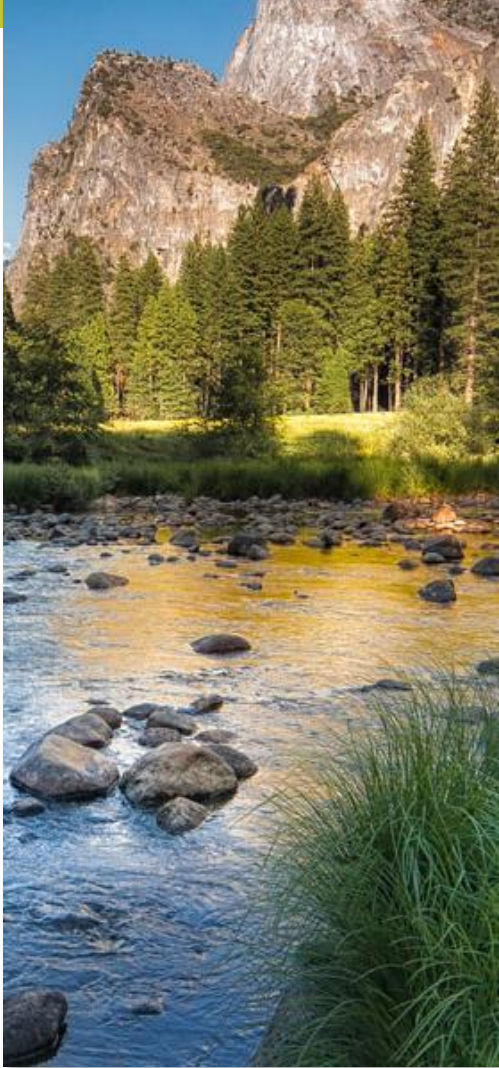
- State of California Sea-Level Rise Guidance adopted in March 2018
- Coordinate with agencies with land use authority in the coastal zone and tidelands
- Recommendations for permit language forthcoming

Adaptation: Resources and Storage



- Temporary water rights for underground storage / groundwater recharge
- Surface Water Augmentation using recycled water
- Coordinate on water quality improvement benefits of Water Storage Investment Program

Adaptation: Protect and Restore



- Document enhancement of ecosystem resilience in policy and technical documents
- Assess impacts of climate change to inland waters
- Include climate stressors in future ecosystem assessments

Adaptation is a process, and will have to be
flexible, iterative, and continuous

Support: Funding



- Extra points for financing of drinking water and clean water projects that advance climate change goals
- Financial and technical support for permanent and sustainable solutions
- Workshops for public water systems to increase readiness

Support: Access to Data



- Promote open data
- Maximize use of existing data in regulatory and management decisions
- Civic engagement events



2018 Water Boards Science Symposium

Adapting in the Face of Disruptive
Landscape Change, June 20-21

Coming up in 2018



- Develop recommendations for permits and regulatory requirements to reduce infrastructure vulnerability
- Assess data needs, regulatory and policy changes for water availability analyses
- Updates from Regional Boards